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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/915,122	07/25/2001	Kevin Kwong-Tai Chung	AI-TECH-23	5758

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EXAMINER

TRAN, KHOA H

ART UNIT PAPER NUMBER

3634

DATE MAILED: 08/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/915,122	Applicant(s) CHUNG, KEVIN KWONG-TAI	
	Examiner Khoa Tran	Art Unit 3634	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 April 2004.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☒ Claim(s) 36 is/are allowed.
6) ☒ Claim(s) 1-35 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kreckel et al. (U.S. Patent No. 6,491,781) in view Delgado et al. (U.S. Patent No. 4,994,322) and Plamthottam et al. (U.S. Patent No. 5,723,191) an Wehr (U.S. Patent No. 4,894,283). Kreckel et al. disclose a reusable carrier structure comprising a substrate carrier base/article (14) having adhesives (12) laminate disposed on a surface of the carrier base (14). The laminate adhesive comprises a transparent adhesive base (24), a first adhesive layer (22) disposed on a first surface of the adhesive base, see Figure 1, for removably connecting the carrier base (14) and the adhesive base (24) and a second adhesive layer (26) disposed on a second surface of the adhesive base (24) for providing a tacky carrier surface. The lower adhesive layer (12) to the substrate carrier has a different release adhesion than the top adhesive layer (16), wherein the top adhesive layer has an opaque cover material (34). See column 10, lines 18-21. Kreckel et al. do not teach the composition of the adhesive layer and how they are formed. However, Delgado et al. teach the composition of an adhesive layer that cross-linkable by heat or radiation, see column 7, lines 13-14, and the composition of the adhesive is decreased adhesive transfer for increased peel adhesion, see column 10, lines 56-28. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the reusable adhesive layer of Kreckel et al. with the provision of adhesive layer as taught by Delgado et al. in

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order to decrease adhesive transfer for increased peel adhesion during the phase of separation. Plamthottam et al. ('191) teach heat or radiation curing of cross-linking adhesive between high shear adhesion failure temperature and good peel adhesion temperature. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the modified adhesive layer of Kreckel in view of Delgado et al. with the process of heat or radiation curing as taught by Plamthottam et al. ('191) in order to determine the good peel adhesion test that can be used for structural bonding. Wehr teaches a reusable adhesive layer containing ethylene vinyl acetate copolymer. It would have been obvious to one of ordinary skill in the art to provide the modified adhesive layer of Kreckel in view of Delgado et al. and Plamthottam et al. ('191) with the provision of ethylene vinyl acetate copolymer in order to have the adhesive that is reusable. With respect to claims 6-8, 15-17, and 25-27, it would have been an obvious matter of engineering design choice as determined through routine experimentation and optimization for one of ordinary skill in the art to routinely dimension the percentage of the adhesive strength lost to be 70% after the cross-linking process, i.e., exposed to heat or radiation, and to routinely dimension the resistance to deformation that is less than 300 degree Celsius as taught by Plamthottam et al ('191) for a particular application thus producing no new and unexpected results.

Allowable Subject Matter

Claim 36 is allowed over the prior art of record because none of the prior art of record teaches or suggests the carrier structure includes a rectangular frame having a ledge providing the support member, and wherein the cover includes first and second

covers disposed on opposite ends of the rectangular frame, wherein the first and second covers and the rectangular frame enclose the carrier base.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments filed on April 19, 2004 have been fully considered but they are not deemed to be persuasive.

With respect to applicant's arguments that the prior arts fail to teach or suggest a cross-link adhesive that decrease its adhesion or tackiness when it exposes to electromagnetic radiation, it should be noted it is notorious old and commonly well known that the adhesion of an adhesive will lose its adhesion when it exposes to heat such as radiation. Further, it should be noted that Plamthottam et al. teach the tackiness/and or adhesion of an adhesive by heat or radiation curing of a cross-linking adhesive between high shear adhesion failure temperature and good peel adhesion temperature.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

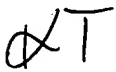
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khoa Tran whose telephone number is (703) 306-3437. The examiner can normally be reached on Monday through Thursday from 9:30 A.M. to 7:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leslie Braun, can be reached on (703) 308-2156. The fax phone number for this Group before a final Office action is (703) 872-9306 and after a final Office action is (703) 872-9327.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168.


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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Khoa Tran

August 21, 2004



ANITA KING
PRIMARY EXAMINER